COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

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IN REPLY PLEASE
REFER TO FILE: PM-3

August 12, 2009

TO: Each Supervisor

FROM: Gail Farber
Director of Public Works

COUNTYWIDE ENERGY AND ENVIRONMENTAL POLICY

In support of your Board's Countywide Energy and Environmental Policy adopted December 19, 2006, we are pleased to report the successful completion of the first County of Los Angeles Leadership in Energy and Environmental Design (LEED) Gold Certified project, Fire Station 136.

The project is a new 10,158-square-foot Battalion headquarters fire station that consists of a two-bay apparatus room, a main office, a day room, a kitchen, an exercise room, a Battalion Chief's office and dormitory, and dormitory quarters for seven shift personnel. The architectural plan conforms to the Fire District's New Station Prototype design/construction specifications adopted in 1999 and complies with the Americans with Disabilities Act, in addition to conforming to your Board's Countywide Energy and Environmental Policy, and the project also complies with the Drought Tolerant Landscaping policy.

Some of the design sustainable features that allowed the LEED Gold Certification include the following:

- Water efficient landscaping
- 42 percent water use reductions within the building
- Optimized energy performance achieved through the heating ventilation and cooling system

- Enhanced refrigerant management
- Construction waste management
- Controllability features for the lighting and thermal comfort systems
- Indoor air quality management plans during construction and prior to occupancy
- Day lighting and views for 99 percent of the interior spaces
- Use of renewable energy

Attached is a fact sheet of the project's metrics, costs, and schedule.

If you have any questions, please call me or your staff may contact James F. Kearns at (626) 300-3200.

JFK:sj
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Attach.

cc: Chief Executive Office
County Counsel
Executive Office
Fire Department

PROJECT FACT SHEET
COUNTYWIDE ENERGY AND ENVIRONMENTAL POLICY
FIRE STATION 136
CONTRACT PW 13044 – SPECS. 6835; C.P. 70961

PROJECT:	Fire Station 136 – 10,158-square-foot facility, 1.27-acre site	
SUPERVISORIAL DISTRICT:	Fifth, Supervisor Michael D. Antonovich	
ARCHITECT:	RRM Design Group 3765 South Higuera Street, Suite 102 San Luis Obispo, CA 93401	
CONTRACTOR:	Novus Construction 9205 Alabama Avenue, Suite F Chatsworth, CA 91311	
CLIENT DEPARTMENT:	Fire Department	
PUBLIC WORKS REPRESENTATIVES:	Logan Frame, Project Manager	
CONTRACT DATA:	Award Date:	May 15, 2007
	Start Date:	July 24, 2007
	Substantial Completion Date:	October 1, 2008
	Original Contract Amount:	$ 6,093,854
	Change Orders :	$ 610,098
	FINAL CONTRACT AMOUNT:	**$ 6,703,952**
TOTAL PROJECT COST:	Board Approved Budget	$ 9,730,000
	Actual Budget Spent	$ 8,851,146

PROJECT METRICS

Site Design features

100 percent of the 1.27 acre site's annual rainfall water is treated on site before it reaches the storm water system.

100 percent of the site is covered by landscape or light colored paving that reduces impact of the project on the Heat Island Effect. The project utilized 765 cubic yards of light colored paving.

100 percent of the roof area, 14,380 square feet, is low Solar Reflective Index (SRI) compliant, which reduces impact of the project on the Heat Island Effect.

Water Design features

The project site uses 66 percent less water for irrigation than a traditional design. This provides a 63,133-gallon water savings annually. This was achieved through the water system design.

The design uses 42 percent less water to operate the fire station than a traditionally designed similar building. This provides a 22,192-gallon water savings annually.

Energy and Atmosphere Design features

The project's energy efficient design uses 31 percent less energy than traditional building design. This provides for a savings of 87,730 kWh of electricity annually.

The heating ventilation and cooling systems are an environmentally friendly design. This project uses 27 tons of CFC free refrigerant in the HVAC system.

The project uses renewable Green Power to account for 75 percent of the building's energy use for 10 years. The use of 1,015,100 kWh renewable Green Power reduces CO2 emissions by 677,579 pounds annually.

Materials and Recycling features

Diverted 136 tons of construction waste from the landfills, which accounted for 84 percent of the total construction waste generated. Broken down into categories:

- Between 99.7 percent and 100 percent of gypsum waste
- 76 percent of commingled waste
- 100 percent of wood waste
- 100 percent of metal waste
- 100 percent of concrete waste

21 percent of the building's materials were harvested and manufactured within 500 miles of the project site.

Indoor Environmental Design features

The building design includes a built-in carbon dioxide monitoring system.

100 percent of the adhesives, sealants, and sealant primers used in the project fall within the South Coast Air Quality Management District's Volatile Organic Compound (VOC) Limits.

100 percent of the paints and coatings used on the project fall within the Green Seal GS-11 VOC Limits.

100 percent of the carpeting in the project meets the Carpet and Rug Institute's Green Label Plus Program Requirements.

None of the indoor Composite Wood or Agrifiber products used in the project contain added urea formaldehyde.

99 percent of the regularly occupied spaces have access to views to the outdoors.